ork Collins, Colorado 80527-2400

100111235-1

FEB 0 6 2004 &

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

S. Brandon Keller, et al.

Confirmation No.:

Application No.: 10/647,608

Examiner: Not Assigned

Filing Date:

Aug. 25, 2003

Group Art Unit:

Title:

System And Method For Determining Unmatched Design Elements In A

Computer-Automated Design

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
() under 37 CFR 1.97(c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
() under 37 CFR 1.97 (d) together with a:
() Statement under 37 CFR 1.97(e)(1) or (2), and
() a \$180.00 fee set forth in 37 CFR 1.17(p).

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

- (X) Applicant(s) submit herewith Form PTO 1449 Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- () A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

٠٠. ٠٠. لما

"Express Mail" label no. EV210654864US

Date of Deposit Feb. 6, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Ratents, Alexandria, VA 22313-1450.

By

Typed Name: Wendy Precht

Respectfully submitted,

S. Brandon Keller, et al.

Peter C. Knops

Attorney/Agent for Applicant(s)

Reg. No. 37,659

Date: Feb. 6, 2004

Telephone No.: (816) 460-5826

Rev 10/03 (IDSXML)

PATENT APPLICATION Sheet 1 of 6

FORM PTO-1449	ATTY. DOCKET NO. 100111235-1	APPLICATION NO. CONFIRMATION 10/647,608	NO.
FEB 0 6 2004 LEST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT S. Brandon Keller, e	et al.	
	FILING DATE	GROUP	
(Use several sheets if necessary)	Aug. 25, 2003		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

XAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appea
1,	A				
18	В				
10	С				
11	D				
11	E				
11	F				
10	G				·
11	Н			-	
11	ı				
1.	J				
11	К				

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M					
1N					
10		,			
1P	, , , , , , , , , , , , , , , , , , ,				

		OTHER REFERENCES (including Auth	or, Title, Date, Pertinent Pages, etc.)
	10	10/706,682, Entitled: Method And Progra	LELM, Charles A.; U.S. Patent Application Serial Number m Product For Determining Nets Requiring Detailed s In A Digital Integrated Circuit; Filed November 12,
·	1R	10/706,698, Entitled: Method And Progra	LELM, Charles A.; U.S. Patent Application Serial Number m Product For Performing Self-Heating Analysis In A Cycle Transient Simulation; Filed November 12, 2003
	1S	10/706,376, Entitled: Method And Progra	LELM, Charles A.; U.S. Patent Application Serial Number m For Visual Display and One-Click Repair Of Rule Violations In A Digital Integrated Circuit Layout
FXAMINI	FR		DATE CONSIDERED

PATENT APPLICATION Sheet 2 of 6

				1	ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMATION	N
		ГО-1449			100111235-1		10/647,608		
		PATENTS AND PU		Ì	APPLICANT				
		NT'S INFORMATIC STATES			S. Brandon Keller,	, et a			
FEB 0	/8 1-	a constant about it			FILING DATE		GROUP		
	(Us	Se several sheets if SESIGNATION	necessary)		Aug. 25, 2003		, , , , , , , , , , , , , , , , , , ,		
ERES 3	BREEF	ESIGNATION	U.S. PA	ATENT	DOCUMENTS				
AMINER VITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns, Relevant Passages o		
	2A								
	2B								
	2C	-							
	2D								
	2E							_	
	2F						.		
	2G			 					
	2H			+			· · · · · · · · · · · · · · · · · · ·		
	21								
	2J								
	2K					-			
								•	
_		DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT		Pages/Columns/Lines evant Passages/Figur	IIIalis	slat
	2L								
	2M								
-	2N								
	20								
	2P								
	1							·	
		other refe	RENCES (including	ng Aut	hor, Title, Date, P	ertine	ent Pages, etc.)		
	20	10/706,501, E Digital Integrate	ntitled: Method An	d Progr erting A	; LELM, Charles A.; am Product For Perf A Netlist To A DC M	formin	g Electromigration	Analysis In A	
	2R	10/706,526, E	ntitled: Method And	d Progr gital In:	; LELM, Charles A.; am Product For Perf tegrated Circuit With	formin	g A Worst Case E	lectromigration	
	28	10/706,692, Ei	ntitled: Method An	d Progr	; LELM, Charles A.; am Product For Perf le Cycle Transient S	formin	g Electromigration	Analysis In A	
·	NER				1		•		

PATENT APPLICATION Sheet 3 of 6

	nna na	FO 4440		^	TTY. DOCKET NO.		APPLICATION NO.	CONFIRMAT	IOIA IA
-		ГО-1449		1	00111235-1	•	10/647,608		
		PATENTS AND PURITY INFORMATION	IBLICATIONS FOR	A	PPLICANT		•		
		STATE			. Brandon Keller LING DATE	r, et a	al. GROUP		
FEB 0 6 7	2004 (Us	e several sheets i	f necessary)		ug. 25, 2003		dhoor		
	Cart C	DESIGNATION	11 9 8		ENT DOCUMENTS				
				418101	OCOIAIEIA 1.2		Daniel Call III		
(AMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages		ear
	3A				·· <u>·</u> ··				··
	3B	<u>.</u>							
;	3C							•	
	3D								
	3E								.
	3F	:					·		
	3G								
	3H							<u> </u>	
	31						 	····	
	3J								
	3K								
			FOR	EIGN P	ATENT DOCUM	ENTS	3		Check
		DOCUMENT NUMBER	PUBLICATION DATE	NAM	ATENT DOCUM E OF PATENTEE R APPLICANT	T	Pages/Columns/Line levant Passages/Figu		Translat
	3L		PUBLICATION	NAM	E OF PATENTEE	T	Pages/Columns/Line		Translat
	3L		PUBLICATION	NAM	E OF PATENTEE	T	Pages/Columns/Line		Transla
	3L 3M		PUBLICATION	NAM	E OF PATENTEE	T	Pages/Columns/Line		Transla
	3L 3M 3N		PUBLICATION	NAM	E OF PATENTEE	T	Pages/Columns/Line		Translat
	3L 3M		PUBLICATION	NAM	E OF PATENTEE	T	Pages/Columns/Line		Translat
	3L 3M 3N	NUMBER	PUBLICATION	NAM	E OF PATENTEE R APPLICANT	Re	Pages/Columns/Line levant Passages/Figu		Check Translat attache
	3L 3M 3N	OTHER REFE	PUBLICATION DATE RENCES (includin and and and and and and and and and an	g Authonis R.;	or, Title, Date, P	ertine; U.S.	Pages/Columns/Line levant Passages/Figure ent Pages, etc.) Patent Application ng Self-Heating An	n Serial Numb	Translat
	3L 3M 3N 3P	NUMBER OTHER REFE KELLER, S. Bra 10/706,508, E Digital Integrat Filed Novembe KELLER, S. Bra under EV2106 Currents In A I	PUBLICATION DATE RENCES (includin and and and and and and and and and an	nnis R.; I Prograr atabase	E OF PATENTEE R APPLICANT Or, Title, Date, P LELM, Charles A. In Product For Per by Substituting Re ROBBERTS, Georg And Program Product ough Worst-Case	ertinge H.;	Pages/Columns/Line levant Passages/Figure Pages, etc.) Patent Application of Self-Heating Andre Models For Action Determining Weight Pages (Columns) and the Models For Action (Columns) with the M	n Serial Numb nalysis In A ve Devices; cation filed orst Case	Transla
	3L 3M 3N 3O 3P	NUMBER OTHER REFE KELLER, S. Bra 10/706,508, E Digital Integrat Filed Novembe KELLER, S. Bra under EV2106 Currents In A I Docket No.: 2 KELLER, S. Bra under EV2106	PUBLICATION DATE RENCES (includin andon; ROGERS, Denotitled: Method Andoed Circuit Layout Date 12, 2003 Indon; ROGERS, Denotitled: Digital Integrated Circuit Circui	nnis R.; Methodoricuit Throgram	E OF PATENTEE R APPLICANT Or, Title, Date, P LELM, Charles A. In Product For Per by Substituting Re ROBBERTS, Georg And Program Product Ough Worst-Case 30, 2004 ROBBERTS, Georg 901-1; Entitled: S	ertinge H.;	Pages/Columns/Line levant Passages/Figure ent Pages, etc.) Patent Application ng Self-Heating And re Models For Action Tor Determining Warposition Of Partial U.S. Patent Appli	n Serial Numb nalysis In A ve Devices; cation filed orst Case I Currents;	Transla

Rev 10/03 (PTO1449)

PATENT APPLICATION Sheet 4 of 6

	DD// D	ГО-1449	· · · · · · · · · · · · · · · · · · ·		ATTY. DOCKET NO.	APPLICATION NO. CONFIRM	ATION N
					100111235-1	10/647,608	
		PATENTS AND PU NT'S INFORMATI	JBLICATIONS FOR ON DISCLOSURE		APPLICANT		— -
0 ~		STATE			S. Brandon Keller, FILING DATE	et al.	
FEB 0 6	OOY U	several sheets i	f necessary)		Aug. 25, 2003	GNOOF	
S EFEREN	CE C	DESIGNATION	U.S. P	ATENT	DOCUMENTS	· · · · · · · · · · · · · · · · · · ·	
XAMINER		DOCUMENT	PUBLICATION	<u> </u>		Pages, Columns, Lines Whe	
INITIAL		NUMBER	DATE		NAME	Relevant Passages or Figures Ap	opear ———
	4A						
	4B						
	4C						·
	4D						
	4E			<u> </u>			
	4F						
	4G	~					·
-	4H 4I						
	4J						
	45 4K				·····		
	41						
	<u> </u>	DOCUMENT	PUBLICATION		ME OF PATENTEE	NTS Pages/Columns/Lines Where	Check
		NUMBER	DATE		OR APPLICANT	Relevant Passages/Figures Appear	Translati attache
	4L						
	4M						
	4N						
	40						
	4P						
		OTHER REFE	RENCES (includi	ng Aut	hor, Title, Date, Pe	ertinent Pages, etc.)	
	40	under EV2106	55581US; Docket	No.: 20		e H.; U.S. Patent Application filed System And Method For Jary 30, 2004	
						€.	
	4R	under EV2106	55595US; Docket	No.: 20	00308898-1; Entitled	e H.; U.S. Patent Application filed I: Systems And Methods That Idea r Analysis Tools; Filed January 30	ntify
	48	Patent Applicat		210655	520US; Entitled: Sys	e H. & STEVENS, Scott Alan; U.S. stem And Method To Limit Analyz	
EYABAINI	E P	<u> </u>			DATE CONSIDERS		
EXAMIN	EN				DATE CONSIDERE	U	

Rev 10/03 (PTO1449)

PATENT APPLICATION Sheet 5 of 6

	PTO-1449	JBLICATIONS FOR	100111235-1	10/647,608 CONFIRMA	ATION N
5 \ PAGELLO	ANT'S INFORMATI STATE	ON DISCLOSURE MENT	S. Brandon Keller FILING DATE Aug. 25, 2003	er, et al. GROUP	
	DESIGNATION		TENT DOCUMENTS		
XAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Wher Relevant Passages or Figures Ap	
5A					
5B					
5C					
5D					
5E					
5F					 _
5G					
5H					
51					
5J					
5K					
	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check Translat attache
5L					
5M					
5N					
50					·· _
5P	 	<u> </u>			
	OTHER REF	ERENCES (includin	g Author, Title, Date,	Pertinent Pages, etc.)	
50	under EV2106		200310172-1; Entitled:	orge H.; U.S. Patent Application filed System And Method For Processing	
5R	under EV2106	55555US; Docket:	200310170-1; Entitled:	orge H.; U.S. Patent Application filed System And Method For Balancing is Tool; Filed January 30, 2004	
5S	under EV2106	55578US; Docket:	200308900-1; Entitled:	orge H.; U.S. Patent Application filed System And Method For Indicating ysis; Filed January 30, 2004	
EXAMINER			DATE CONSIDI	ERED	

Rev 10/03 (PTO1449)

PATENT APPLICATION

Sheet 6 of 6

FOI	RM P1	TO-1449			ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMA	HON N
			IBLICATIONS FOR		100111235-1		10/647,608		
(版	PCICA		UBLICATIONS FOR ON DISCLOSURE		APPLICANT		<i>,</i>		
O	·	STATE			S. Brandon Keller FILING DATE	r, et a	GROUP		
FEB 0 6	2004	se several sheets i	f necessary)		Aug. 25, 2003			· ·	
FEREN	ICE (SIGNATION	U.S. P	ATEN	DOCUMENTS				
XAMINEN.		DOCOMENT	PUBLICATION		NAME		Pages, Columns Relevant Passages		
INITIAL		NUMBER	DATE		NAME		nelevant rassages (———
 +-	6A								
+	6B						· · · · · · · · · · · · · · · · · · ·		
+	6C								
	6D			_					
	6E								····
	6F					.	·		
	6G								<u>_</u>
	6H								
	61								
	6J								
	6K								
			FOI	REIGN	PATENT DOCUM	ENTS			
		DOCUMENT NUMBER	PUBLICATION DATE		PATENT DOCUMING OF PATENTEE OR APPLICANT		Pages/Columns/Line evant Passages/Figu		Translati
	6L		PUBLICATION		ME OF PATENTEE		Pages/Columns/Line		Translati
	6M		PUBLICATION		ME OF PATENTEE		Pages/Columns/Line		Translati
	6M 6N		PUBLICATION		ME OF PATENTEE		Pages/Columns/Line		Translati
	6M 6N 6O		PUBLICATION		ME OF PATENTEE OR APPLICANT		Pages/Columns/Line		Translati
	6M 6N		PUBLICATION		ME OF PATENTEE OR APPLICANT		Pages/Columns/Line		Translati
	6M 6N 6O	NUMBER	PUBLICATION DATE	N/	ME OF PATENTEE OR APPLICANT	Rel	Pages/Columns/Line evant Passages/Figu		Check Translati attache
	6M 6N 6O 6P	OTHER REFE	PUBLICATION DATE ERENCES (including andon; ROGERS, Des 55547US; Docket: Combinations For Use 1988)	n g Au 1	AME OF PATENTEE OR APPLICANT	Pertine	Pages/Columns/Linesevant Passages/Figurent Pages, etc.) U.S. Patent Appli	cation filed	Translati
	6M 6N 6O 6P	OTHER REFE KELLER, S. Braunder EV2106 Control Signal	PUBLICATION DATE ERENCES (including andon; ROGERS, Des 55547US; Docket: Combinations For Use 1988)	n g Au 1	thor, Title, Date, P	Pertine	Pages/Columns/Linesevant Passages/Figurent Pages, etc.) U.S. Patent Appli	cation filed	Translati
	6M 6N 6O 6P 6Q	OTHER REFE KELLER, S. Braunder EV2106 Control Signal	PUBLICATION DATE ERENCES (including andon; ROGERS, Des 55547US; Docket: Combinations For Use 1988)	n g Au 1	thor, Title, Date, P	Pertine	Pages/Columns/Linesevant Passages/Figurent Pages, etc.) U.S. Patent Appli	cation filed	Translati
	6M 6N 6O 6P	OTHER REFE KELLER, S. Braunder EV2106 Control Signal	PUBLICATION DATE ERENCES (including andon; ROGERS, Des 55547US; Docket: Combinations For Use 1988)	n g Au 1	thor, Title, Date, P	Pertine	Pages/Columns/Linesevant Passages/Figurent Pages, etc.) U.S. Patent Appli	cation filed	Translati